

LITTLE COLORADO RIVER BASIN

09392000 SHOW LOW CREEK BELOW JAQUES DAM, NEAR SHOW LOW, AZ

LOCATION--Lat 34°11'47", long 110°00'13", in NW_{1/4} sec. 10, T.9 N., R.22 E., Navajo County, Hydrologic Unit 15020005, on right bank just downstream from Jaques Dam, 3.5 mi northwest of Lakeside, and 4.5 mi southeast of Show Low.

DRAINAGE AREA--73.0 mi².

PERIOD OF RECORD--Nov. 1941 to Jan. 1945, June 1953 to Sept. 1955 (monthly discharge only), Oct. 1955 to current year. Monthly discharge only Nov. 1941 to Jan. 1945, published in WSP 1313. Published as "at Jaques damsite, near Lakeside" 1941-45.

REVISED RECORDS--WSP 1926: Drainage area. WDR AZ-81-1: 1979 (M).

GAGE--Water-stage recorder and sharp-crested weir, with supplementary water-stage recorder on lake for recording flow over concrete spillway. Elevation of gage is 6,530 ft above sea level, from topographic map. Nov. 1941 to Jan. 1945 nonrecording gage at site 100 ft upstream at different datum.

REMARKS--Records good except for estimated daily discharges, which are fair. Discharge record is the sum of the diversions from Show Low Lake into Show Low Creek (09392000) and flows over the Show Low Lake spillway, which enters Show Low Creek about 0.25 mi downstream of station 09392000. Flow over the spillway occurred from Mar. 15 to Apr. 2 and Apr. 7 to 15 this year. Record since 1953 shows release from Show Low Lake. Flow regulated by several reservoirs, largest of which are Show Low Lake, completed in 1953; Rainbow Lake, completed prior to 1941; and Scott Reservoir, completed in 1946 (combined capacity, 8,800 acre-ft). Diversions for irrigation of about 250 acres above Show Low Lake and diversion by pumping of floodwater stored in Show Low Lake to Forestdale Creek in Salt River basin (see record for Forestdale Creek diversion from Show Low Creek, near Show Low, elsewhere in this report).

AVERAGE DISCHARGE--51 years (water years 1954-2004), 8.59 ft³/s, 6,220 acre-ft/yr; median of yearly mean discharges, 3.87 ft³/s, 2,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 4,800 ft³/s, spillway flow entering 0.2 mi downstream from station, Dec. 27, 1984, lake elevation, 6,573.72 ft, from rating curve extended above 270 ft³/s; no flow at times.

EXTREMES OUTSIDE PERIOD OF RECORD--Flood of Jan. 18, 1952, discharge, 6,250 ft³/s at site 5 mi downstream at Show Low, is the largest since at least 1940.

EXTREMES FOR CURRENT YEAR--Maximum daily discharge, 5.6 ft³/s, Oct. 1-4. Minimum daily discharge, 0.11 ft³/s on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	5.4	0.22	0.20	0.11	0.20	4.4	3.7	4.6	5.3	5.3	5.1
2	5.6	5.4	0.22	0.14	0.14	0.22	4.4	3.7	4.6	5.3	5.3	5.1
3	5.6	5.4	0.22	0.12	0.19	0.22	4.4	3.7	4.7	5.3	5.3	5.1
4	5.6	5.4	0.22	0.11	0.13	0.21	4.4	3.7	4.7	5.3	5.3	2.0
5	5.5	2.3	0.22	0.11	0.11	0.22	2.5	3.7	4.7	5.3	5.3	0.55
6	5.5	0.22	0.22	0.11	0.11	0.19	1.0	3.7	4.8	5.3	5.3	0.54
7	5.5	0.22	0.22	0.11	0.13	0.22	1.0	3.9	4.9	5.3	5.3	0.54
8	5.4	0.22	0.22	0.11	0.11	0.22	1.0	3.9	4.9	5.3	5.3	0.54
9	5.4	0.22	0.22	0.11	0.11	0.22	1.0	3.9	4.9	5.3	5.3	2.8
10	5.4	0.22	0.22	0.11	0.11	0.22	1.0	3.9	4.9	5.3	5.2	4.9
11	5.4	0.22	0.22	0.11	0.13	0.22	1.0	3.9	5.1	5.3	5.2	4.9
12	5.4	0.22	0.22	0.11	0.12	0.22	1.0	3.9	5.1	5.3	5.2	4.9
13	5.4	0.21	0.22	0.16	0.13	0.22	1.0	3.9	5.4	5.3	5.2	4.9
14	5.4	0.22	0.22	0.22	0.13	0.22	1.0	3.9	5.4	5.2	5.1	4.9
15	5.4	0.22	0.22	0.39	0.12	0.22	1.0	3.9	5.4	5.2	5.1	4.9
16	5.4	0.22	0.22	0.61	0.17	0.22	2.4	3.9	5.4	e5.2	5.1	4.9
17	5.4	0.22	0.22	0.61	0.22	0.21	3.7	3.9	5.4	e5.2	5.1	4.9
18	5.4	0.22	0.22	0.61	0.22	0.18	3.7	3.9	5.3	e5.2	5.1	4.9
19	5.4	0.18	0.22	0.61	0.22	0.80	3.7	3.9	5.3	e5.2	5.1	4.9
20	5.4	0.18	0.22	0.61	0.22	2.0	3.7	3.9	5.3	e5.2	5.1	4.9
21	5.4	0.51	0.22	0.61	0.22	3.2	3.7	3.9	5.3	e5.2	5.1	4.9
22	5.4	1.0	0.22	0.30	0.22	3.9	3.7	3.9	5.3	e5.2	5.1	4.9
23	5.4	1.0	0.22	0.11	0.22	3.9	3.7	3.9	5.3	5.3	5.1	4.9
24	5.4	1.0	0.22	0.11	0.22	3.9	3.7	3.9	5.3	5.3	5.1	4.9
25	5.4	1.0	0.22	0.11	0.17	4.2	3.7	3.9	5.3	5.3	5.1	4.9
26	5.4	0.56	0.22	0.11	0.19	4.4	3.7	3.9	5.3	5.3	5.1	4.9
27	5.4	0.22	0.22	0.11	0.21	4.4	3.7	3.9	5.3	5.3	5.1	4.9
28	5.4	0.22	0.22	0.11	0.21	4.4	3.7	3.9	5.3	5.3	5.1	4.9
29	5.4	0.22	0.22	0.11	0.16	4.4	3.7	4.1	5.3	5.3	5.1	4.9
30	5.4	0.22	0.22	0.11	---	4.4	3.7	4.6	5.3	5.3	5.1	3.1
31	5.4	---	0.22	0.12	---	4.4	---	4.6	---	5.3	5.1	---
TOTAL	168.5	33.06	6.82	7.18	4.75	52.15	84.3	121.3	153.8	163.4	160.3	123.37
MEAN	5.44	1.10	0.22	0.23	0.16	1.68	2.81	3.91	5.13	5.27	5.17	4.11
MAX	5.6	5.4	0.22	0.61	0.22	4.4	4.4	4.6	5.4	5.3	5.1	5.1
MIN	5.4	0.18	0.22	0.11	0.11	0.18	1.0	3.7	4.6	5.2	5.1	0.54
AC-FT	334	66	14	14	9.4	103	167	241	305	324	318	245

CAL YR 2003 TOTAL 1360.23 MEAN 3.73 MAX 11 MIN 0.18 AC-FT 2700
WTR YR 2004 TOTAL 1078.93 MEAN 2.95 MAX 5.6 MIN 0.11 AC-FT 2140

e Estimated